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IPC(8) - USPC -	SSIFICATION OF SUBJECT MATTER C12P 19/34 (2008.04) 435/91.2 o International Patent Classification (IPC) or to both na	tional classification :	and IPC	
B. FIEL	DS SEARCHED			
IPC(8)- C12	ocumentation searched (classification system followed by c P 19/34 (2008.04) 91.2, 6; 702/19	lassification symbols		
Documentat	ion searched other than minimum documentation to the exte	ent that such documer	ts are included in the	fields searched
PubWEST(na base consulted during the international search (name of POPBLUSPT_USOC_EPAB_IPAB); Google Patents; Google renome amplification, mass spectometry, patogen detection specific, primer, phi29 high processivity polymerase. rec	ile Scholar on, sampath, hall, ec		
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relev	ant passages	Relevant to claim No.
Y	TALAAT et al. Genome-directed primers for selective la microarray analysis NATURE BIOTECHNOLOGY VOL para 2)(pg 680 Fig 1.)(pg 680 para 4)(pg 681 para 1-3)			1-41, 49-89
Y	US 2004/0126764 A1 (LASKEN et al.) 01 July 2004 (01 [0039], [0040], [0048], [0051], [0103])	.07.2004) (paras [000	7][0010],[0017],	1-41, 49-89
Y (WO 2005/098047 A2 (SAMPATH et al.) 20 October 200 NOs:262,625,350,782,241,597,389)(para [0006]-[0009]	15 (20.10.2005)(SEQ)(para [0012]-[0013])	ID para (0074-0075))	2-13, 19-31, 35, 38 52- 63, 68-80, 82, and 84-89
Y	US 5,576,204 A (BLANCO et al.) 19 November 1996 (1: 18)(col 4 in 21-25)	15, 16, 64-66		
ر ۲	WO 2005/054454 A1 (RAOULT et al) 16 June 2005 (16 (SEQ ID NO:3 nucleotides 414-437)(abstract)	.06.2005) (SEQ ID N	O:53)	11,13, 61, 63
Y	US 2004/00291129 A1 (WANG et al.) 12 February 2004 38904)(para [1785]-[1788])	(12.02.2004)(SEQ I	D NOs:6545,	11,12, 61, 62
Y	US 2003/0119018 A1 (OMURA et al.) 26 June 2003 (26 3299-3271)(para[0008]-[0010])	6.06.2003)(SEQ ID N	D:4898 nucleotides	12,62
Υ .	US 2005/0266397 A1 (ECKER et al.) 01 December 200 [0032])(para [0108])(para [0109])(para [0116-0117])(par		[0015]-[0016])(pare	37-41 85-89
Furthe	r documents are listed in the continuation of Box C.			
"A" docume	categories of cited documents: int defining the general state of the art which is not considered particular relevance	date and not in	ublished after the inter onflict with the appli- heory underlying the	mational filing date or priority action but cited to understand invention
"L" docume	ent which may throw doubts on priority claim(s) or which is		ticular relevance; the I or cannot be consid ocument is taken alone	claimed invention cannot b lered to involve an inventiv
cited to establish the publication date of another citation or other "y" document of particular relevance; " special reason (es specified) "O" document referring to an oral disclosure, use, exhibition or other means means		nvolve an inventive ne or more other such	step when the document is documents, such combination	

"P" document published prior to the international filing date but later than the priority' date claimed document member of the same patent family

Date of mailing of the international search report

Lee W. Young

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International application No.
PCT/US 07/20045

Category*	Citation of document with indication whose appropriate of the -	Dalament to als: 31
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Υ	NEWCOMBE et al. PCR of Peripheral Blood for Diagnosis of Meningococcal Disease JOURNAL OF CLINICAL MICROBIOLOGY, Jul 1986, Vol. 34, No. 7 p. 1637-1640. (pg 1637- 1638, materials and methods para 3/(pg 1639 para 2-3)	20-23, 69-72
	1638, materials and methods para 3)(pg 1639 para 2-3)	
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International application No. PCT/US 07/20045

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reas	ons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to suc extent that no meaningful international search can be carried out, specifically:	ch an
3. Claims Nos.: because they are dependent chains and are not drafted in accordance with the second and third sentences of Rule 6.4(a)	
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
This application contains the following inventions or groups of inventions which are not so linked as to from a single general inventior concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.	e
Group 1: Claims 1-41 and 49-99 are directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10 and 60 are limited to primer pair 346	ation
Group 2: Claims 1-41 and 49-89 are directed to a method comprising amplifying a genome with a pluretity of whole genome amplifice primers which are selected by a series of genome-evaluating steps, wherein claims 10 and 60 are limited to primer pair 348	ation
Group 3: Claims 1-41 and 49-89 are directed to a method comprising amplifying a genome with a pturality of whole genome amplificuring which are selected by a series of genome-evaluating steps, wherein claims 10 and 60 are limited to primer pair 349	ation
Continued on Supplemental Page-	
 As all required additional search fees were timely paid by the applicant, this international search report covers all search claims. 	able
 As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite paymen additional fees. 	nt of
 As only some of the required additional search fees were timely paid by the applicant, this international search report condity those claims for which fees were paid, specifically claims Nos.: 	vers
No required additional search fees were timely paid by the applicant. Consequently, this international search repor restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	rt is
1-41 and 49-89 wherein claims 10 and 60 are limited to primer pair 346	
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable pro	- 1
fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.	

International application No.

Continuation of Box No. III Lack of Unity

Group 4: Claims 1-10, 13-41, 49-60, end 63-89 are directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to primer pair 30.

Group 5: Claims 1-10, 13-41, 49-60, and 63-89 are directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to orimer part 358

Group 6: Claims 1-10, 13-41, 49-60, and 63-89 are directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to primer pair 359

Group 7: Claims 1-11, 13-41, 49-61, and 63-89 are directed to a method comprising amplifying a genome with a plurelity of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to primer pair 3346

Group 8: Claims 1-10, 13-41, 49-60, and 63-89 are directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to rimer park 499

Group 9: Claims 1-10, 13-41, 49-60, and 63-89 are directed to a method comprising amplifying a genome with a plurality of whole genome emplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to primer pair 3550

Group 10: Claims 1-10, 14-41, 49-60, and 64-89 are directed to e method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10 and 60 are limited to primer pair 22/40

Group 11: Claims 1-10, 12-41, 49-60, and 62-89 ere directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to primer per 3-10.

Group 12: Claims 1-10, 13-41, 49-60, and 63-89 are directed to a method comprising amplifying a genome with a plurality of whole genome amplification primers which are selected by a series of genome-evaluating steps, wherein claims 10, 13, 60, and 63 are limited to primer per 13-41.

Group 13: Claims 42-48, and 89 are directed to a diagnostic kit comprising e high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 is limited to primer pair 346

Group 14: Claims 42-48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome emplification primers, wherein claims 44 is limited to primer pair 348

Group 15: Claims 42-48, and 89 ere directed to a diegnostic kir comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 is limited to primer pair 349

Group 16: Claims 42-44, 47, 48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and e plurality of purified targeted whole genome amplification primers, wherein claims 44 end 47 ere limited to primer per 354

Group 17: Claims 42-44, 47, 48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 358

Group 18: Claims 42-44, 47, 48, end 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 359

Group 19: Claims 42-45, 47, 48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and e plurality of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 3346.

Group 20: Claims 42-44, 47, 48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 449

Group 21: Claims 42-44, 47, 48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 3350

Group 22: Claims 42-44, 48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of punified targeted whole genome amplification primers, wherein claims 44 is limited to primer pair 2249

Group 23: Claims 42-44, 46-48, and 89 are directed to a diagnostic kit comprising a high processivity polymerase enzyme and a plurality of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 3361

Group 24: Claims 42-44, 47, 48, and 89 are directed to a diagnostic kit comprising a high processity polymerase enzyme and a plurally of purified targeted whole genome amplification primers, wherein claims 44 and 47 are limited to primer pair 3360.

-Continued

International application No.

PCT/US 07/20045 Second Continuation Page of Box No. III. Lack of Unity: The inventions listed as Groups I- XXIV do not relate to a single general inventive concept under PCT Rule 13.1 because under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of Groups I-XII is the series of genome-evaluating steps used to select primers, which is not present in Group XIII-XXIV that has a special technical feature of a high processivity polymerase enzyme. The common technical feature of the listed groups is a whole genome primer. However, this is not an improvement over the prior art of US 2005/0037393 A1 to Gunderson et al. (17 Feb 2005) that teaches a whole genome amplification primer (para [0001]). Additionally, a restriction is applied within Groups I-XII and Group XIII-XXIV because they relate to different primer pairs of distinct sequences having unrelated structures.